

Notice of Allowability	Application No.	Applicant(s)	
	09/966,180	HANSEN ET AL.	
	Examiner	Art Unit	
	A Elamin	2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 10/12/2005.
2. ☒ The allowed claim(s) is/are 3,5-8,10-18,29,30,32-35,43 and 48-54.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark E. Scott (*Reg. #43,100*) on *Dec. 22, 2005*.

2. The application has been amended as follows:

3. **IN THE SPECIFICATION:**

Please delete paragraph [0001] and replace it with the following paragraph:

-- [0001] This application is related to co-pending application Ser. No. 09/966,650 entitled "Broadcast Compressed Firmware Flashing." This application is also related to co-pending application Ser. No. 10/017,785, entitled "Redundant Data and Power Infrastructure for Modular Server Components in a Rack." --

4. **IN THE CLAIMS:**

Please cancel claims 28, 31, 42 and 62-66.

Please amend the following claims:

Claim 3. (Currently Amended) A method comprising:
requesting permission by a server in a rack mounted server system to allocate power from
a central power supply;

polling individual power supplies in the central power supply to determine remaining power capacity of each individual power supply, and there from determining a capability of the central power supply;
analyzing power requirements of the server requesting allocation against the capability of the central power supply; and
powering the server if power is available from the central power supply to maintain fully redundant capability from the central power supply.

Claim 8. (Currently Amended) The method of allocating power as defined in claim 5 wherein requesting permission further comprises:

sending the request by the server across a first communication pathway to a chassis communication module;

relaying the request by the chassis communication module to a power supply communication module across the primary communication pathway; and

responding by the power supply communication module with a response being one of permission granted and permission denied to allocate power.

Claim 10. (Currently Amended) A power management system comprising:

a chassis communication module;

a power supply communication module;

a first communication pathway coupling the chassis communication module and the power supply communication module;

a second communication pathway configured to couple the chassis communication module to a plurality of servers;

a third communication pathway coupling a power supply system to the power supply communication module;

wherein a server of the plurality of servers sends a request for permission to allocate power from the power supply system across the second communication pathway to the chassis communication module;

wherein the chassis communication module relays the request for permission to the power supply communication module across the first communication pathway; and

wherein the power supply communication module polls the power supply system across the third communication pathway, receives results of that polling across the third communication pathway, and sends a response to the server across the first communication pathway, the response being one of permission granted or permission denied.

Claim 29. (Currently Amended) A rack mounted computer system comprising:

a chassis housing a plurality of computers, the chassis mounted in the rack mounted system;

a central power supply system mounted in the rack mounted computer system, the central power supply system coupled to and supplying power to the plurality of computers, said central power supply system comprising a plurality of individual power supplies;

a chassis communication module coupled to the plurality of computers by way of a first communication pathway;

a power supply communication module coupled to the chassis communication module by way of a second communication pathway, and the power supply communication module coupled to each individual power supply by way of a third communication pathway;

wherein the plurality of computers request permission to draw power from the central power supply system by sending that request to the chassis communication module;

wherein the chassis communication module forwards each request for permission to draw power to the power supply communication module; and

wherein the power supply communication module generates a response to the request for permission to draw power by polling each individual power supply across the third communication pathway to determine remaining power capacity, the power

supply communication module sending the response across the second communication pathway.

Claim 43. (Currently Amended) A rack mounted computer system comprising:

a plurality of computer means

a means for housing the plurality of computer means, the means for housing in the rack mounted system;

a central means for supplying power to the plurality of computer means, the central means for supplying mounted in the rack mounted computer system, the central means for supplying comprising a plurality of individual means for supplying power;

a first means for facilitating message transfer coupled to the plurality of computer means;

a means for computer communication coupled to the first means for facilitating;

a means for communicating with a power supply that transfers messages to the central means for supplying, the means for communication coupled to the means for computer communication through a second means for facilitating message transfer and coupled to each individual means for supplying power by way of the a third means for facilitating message transfer;

wherein each of the plurality of computer means requests permission to draw power from the central means for supplying by sending those requests to the means for computer communication across the first means for facilitating;

wherein the means for computer communication forwards each request for permission to draw power across the second means for facilitating to the means for communicating with a power supply; and

wherein the means for communicating with a power supply generates a response to the request for permission to draw power by polling each individual means for supplying power across the third means for facilitating to determine remaining power capacity, the means for communicating with a power supply sending the response across the second means for facilitating.

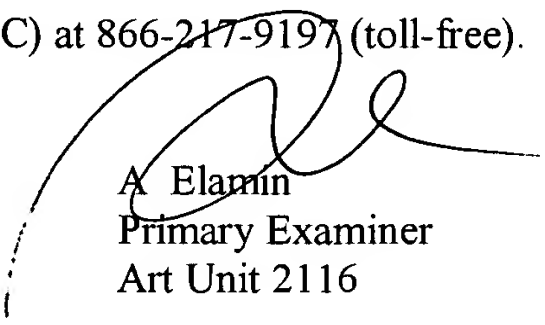
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



A Elamin
Primary Examiner
Art Unit 2116

December 22, 2005